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PHYS 314.01: Electromagnetism I

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PHYSICS 314 - Electromagnetism I

Autumn Semester 2000

- LECTURES: Mon., Wed., and Fri. 11:10 AM - 12:00 noon
SC Bldg. Rm 230
- INSTRUCTOR: Eijiro ("Ebo") Uchimoto
Office: SC Bldg. Rm 130 (Tel. No. 243-6223)
E-mail address: uchimoto@selway.umd.edu
Office Hours: Mon. 9-10 AM, Tue. 11 AM - 12 noon,
Wed. 3 - 4 PM, Thu. 2 - 3 PM,
Fri. 9 - 10 AM (and by appointment)
- NO. OF CREDITS: 3 credits
- PREREQUISITE: Phys 301
- TEXTBOOK: Introduction to Electrodynamics, 3rd ed. by David J. Griffiths
(Prentice Hall, 1999)
- TOPICS: Vector analysis, Dirac delta function, curvilinear coordinates
(Chapter 1 and Appendix A)
Electrostatics (Chapter 2)
Special techniques for calculating potentials (Chapter 3)
Magnetostatics (Chapter 5)
Overview of electric and magnetic fields in matter
(Chapters 4 & 6)
- EXAMS: Three mid-term exams (Mon. 9/25, Fri. 10/20, Wed. 11/15)
One final exam (Mon. 12/18)
- GRADING:
- | | |
|----------------|------------------|
| Problem sets | 30 % |
| Mid-term exams | 42 % (14 % each) |
| Final exam | 28 % |